gcb
Graduate School
for Cellular and
Biomedical Sciences

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UNIVERSITÄT
BERN

Introduction to R

CTS/KSL 468702

Course Description: This course is an introduction to R for biologists, biomedical scientists and medical doctors. In the first part, students will be introduced to the R language and its basic concepts, such as matrices and loops. In the second part, the students will learn the basic functions needed for data visualization and data analysis.

1 ECTS credit: 80% course attendance and course homework

2 ECTS credits: criteria above and successful completion of a written exam.

Course start date: September 12th, 2023

Time: Tuesdays 10:00-11:00

Location: DMBR, Murtenstrasse 35, room H810

Lecturers: Dr. Daniel Sanchez-Taltavull (daniel.sanchez@dbmr.unibe.ch), Dr. Tural Yarahmadov, Dr. Ali Hashemi Gheinani

Registration: Please register via the CTS/KSL platform, root no. 468702

Limit: 15 participants

Course Registration: August 31st, 2023

Exam Registration: 10.11.2023
Exam Withdrawal: 10.12.2023
Exam: 16.01.2023, Murtenstr. 35, H810, 9:00

	Part 1 Introduction to R
12.09.2022	Introduction to basic R concepts
19.09.2022	Vectors and matrices 1
26.09.2022	Vectors and matrices 2
03.10.2022	Data frames and lists
10.10.2022	Conditional and loops 1
17.10.2022	Conditional and loops 2
	Part 2: R for Biology
24.10.2022	Visualizing data with ggplot2 1
31.11.2022	Visualizing data with ggplot2 2
07.11.2022	Visualizing data with ggplot2 3
14.11.2022	Introduction to functions
21.11.2022	Data cleaning and filtering
28.11.2022	R for life sciences
05.12.2022	R for life sciences 2
12.12.2023	R for life sciences 3
19.12.2023	R for life sciences 4
16.01.2023	**Exam**

For further information please contact: deborah.stroka@dbmr.unibe.ch

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